Subject Index to Volume 8

Note: Supplementary material indexed with issue No. followed by page No., e.g., Abstracts of 12th annual meeting, 1: P-17 (Jan/Feb 1987 issue, page P-17).

A

Abstracts of 12th annual meeting, 1: P-17
Acrosin, sperm levels and fertility, 267
Acrosome integrity
  sperm-bound amidase activity and (bull), 162
  sperm separation by swim-up method and (bull), 259
Acrosome reaction, cyclooxygenase inhibitors and (guinea pig), 74
ACTH, effect on testosterone and LH secretion (ram), 190
Adenosine monophosphate, cyclic (cAMP), FSH-induced accumulation of, in cultured Sertoli cells
  cholinergic inhibition of (hamster), 307
  pertussis toxin and (hamster), 314
Adenosine triphosphate (ATP), generation in sperm, asthenospermia and, 349
Adenylate cyclase, in cultured Sertoli cells, tonic inhibition of (hamster), 314
Adrenal steroids, testosterone and LH secretion and (ram), 190
β-Adrenergic receptors, in testicular interstitial cells (rat), 7
Age/aging
  spermatogonial effects, 64
  Sertoli cell androgen receptor concentration and (rat), 83
Alkaline phosphatase, peritubular cell discrimination in testicular cell culture (rat), 155
Amidase activity, sperm-bound, acrosomal integrity and (bull), 162
Androgen receptors
  in Sertoli cell, age-dependent changes in concentration (rat), 83
  testicular preparations, inhibition of receptor–chromatin interaction (rat), 299
Andrology as a specialty, 201
Anosmia, and hypogonadotropic hypogonadism. *See* Kallmann's syndrome
  Antifertility agents, orally active spermicides (dog), 230
Antigen(s), sperm maturation antigen-4 (mouse), 123
Antisperm antibodies, quantitation using direct vs indirect ELISA, 215
Antisperm autoantibodies, following vasectomy (rat), 253
Ascorbic acid, uptake and release by Leydig cells (rat), 398
Asthenospermia, adenosine triphosphate generation in sperm and, 349
Azoospermia
  LHRH agonist-induced, reversibility of (monkey), 103
  obstructive, chronic sinopulmonary disease and, 225

B

Blood flow, testicular
  interruption, reversibility (ram), 108
  varicocele and (rat), 292
Body fatness, pubertal timing and (rat), 116
Body weight, pubertal timing and (rat), 116

C

cAMP. *See* Adenosine monophosphate, cyclic
Cell culture
  epididymal principal cells, steroidogenesis and testosterone metabolism in (ram), 238
  Sertoli cell
    cholinergic inhibition of FSH-induced cAMP accumulation in (hamster), 307
    FSH inhibition of ornithine decarboxylase activity (rat), 383
    tonic inhibition of adenylate cyclase in (hamster), 314
  testicular, peritubular cell discrimination via alkaline phosphatase histochemistry, 155
Chlamydia trachomatis, in fertile and subfertile males, 197
Chromosome abnormality, in Kallmann's syndrome, 55
Computers
  analysis of sperm motion, 170
  videomicrographic analysis of sperm motility (rat), 330
Contraception, male, orally active spermicides (dog), 230
Corticosterone, effect on epididymal lipids (rat), 69
Cryopreservation of sperm, buffering systems, cryovials, and thaw rates, 41
Cryptorchidism, reversibility of seminiferous tubule damage (lamb), 148
Cyclooxygenase, in sperm acrosome reaction and fertilization (animals), 74

D

Doppler flowmetry, reversible testicular blood flow interruption (ram), 108

E

Enzyme-linked immunosorbent assay (ELISA)
  antisperm autoantibodies following vasectomy (rat), 253
  direct vs indirect, in quantitation of antisperm antibody in semen, 215
Epididymis
  lipid content, corticosterone effect on (rat), 69
  morphometric analysis (rat), 279
  principal cells, steroidogenesis and testosterone metabolism in (ram), 238
  sperm flagellar plasma membrane modification in (rat), 129
  sperm maturation antigen-4 (mice), 123
Estradiol immunoneutralization, FSH, LH and testicular Leydig cell response to (ram), 97
Estrogens, LH induction of LH receptors and (rat), 393
Exercise, prolactin response to, in males, 378

F

Fertility/infertility
  Chlamydia trachomatis in males and, 197
  immunologic infertility, 215
  improvement in fertilization potential of sperm using rise technique, 25
  sperm acrosin/proacrosin levels, 267
  sperm separation by swim-up method (bull), 259
  tubules in semen of infertile patient, 61
Fertilization, in vitro
  cyclooxygenase inhibitors and (animals), 74

multipronuclear penetrations, 48
sperm density and motility and, 48
Follicle-stimulating hormone (FSH)
induction of cAMP accumulation in cultured Sertoli cells, cholinergic inhibition of (hamster), 357
ornithine decarboxylase activity and, in Sertoli cell culture (rat), 383
response to estradiol immunization (rams), 97
water restriction and (rat), 1

G

Glycoprotein, sperm tail
mouse, 123
rat, 129
Gonadotropin-releasing hormone (GnRH), effect on prolactin levels, 210
Gonadotropin-releasing hormone (GnRH) agonist
in prostate cancer
gonadotropin levels and, 355
testicular endocrinology and histology and, 363
reversibility of long-term effects on testicular histology and sperm production (monkey), 319
Gonadotropins
opiate control of, 374
in prostate cancer patient
GnRH agonist therapy and, 355
testicular endocrinology and histology and, 363
response to estradiol immunization (ram), 97
serum, corticosterone treatment and (rat), 69

H

Heat treatment, nongonadotropic Leydig cell-stimulating factor in testicular interstitial fluid after (rat), 247
Hydrogen peroxide production, in spermatozoa, 338
Hypogonadism, hypogonadotropic, with anosmia. *See* Kallmann's syndrome

I

Infertility. *See* Fertility/infertility
Inhibin, Sertoli cell production during testicular regression (hamster), 272
β-Inhibin, 182
IVF. *See* Fertilization, in vitro

K

Kallmann's syndrome, chromosome marker, 55

L

Leuprolide, nasal and depot formulations, 1: S-14
Leuprolide acetate (Lupron), in prostate cancer, phase III studies, 1: S-23
Leydig cells
β-adrenergic receptors in (rat), 7
ascorbic acid uptake and release (rat), 398
nongonadotropic stimulating factor in testicular interstitial fluid after heat treatment (rat), 247
response to estradiol immunization (ram), 97
LHRH agonists
animal pharmacology and safety studies, 1: S-9
cost of research and patent considerations, 1: S-27
design of drug candidates, 1: S-4
development of, 1: S-1
leuprolide, 1: S-14
leuprolide acetate in prostate cancer, 1: S-23
nafarelin acetate, 1: S-17
pharmaceutical aspects, 1: S-14
reversal of testicular function after prolonged suppression with (monkey), 103
Lipids
epididymal, corticosterone treatment and (rat), 69
peroxidation of, in spermatozoa, 338
Luteinizing hormone (LH)
induction of LH receptors
prolactin and (rat), 388
sex steroids and (rat), 393
response to estradiol immunization (ram), 97
secretion
adrenal steroids and (ram), 190
in pubertal boys, opiate receptor blockade and, 203
suppression of, GnRH agonist treatment and, reversibility of (monkey), 319
water restriction and (rat), 1
Luteinizing hormone-releasing hormone. *See* LHRH

M

Metalloendoprotease, in spermatozoa, 14
Morphometric studies, epididymis from normal and vasectomized rats, 279
Muscarinic cholinergic receptor, in cultured Sertoli cell (hamster), 307
MVO_2 treadmill test, prolactin response in males, 378

N

Nafarelin acetate, phase I and phase II studies, 1: S-17
Naltrexone, gonadotropin secretion and, in pubertal boys, 203, 374
Nitrocellulose glass coating agents, sperm adhesion and, 34

O

Opiate receptor blockade, testosterone and LH instantaneous secretory rate in pubertal boys and, 203
Opiates, gonadotropins and, 374
Orchiectomy, in prostate cancer
gonadotropin levels and, 355
testicular endocrinology and histology, 363
Ornithine decarboxylase, FSH and, in Sertoli cell culture (rat) 383
Oxygen toxicity, spermatozoa, lipid peroxidation and, superoxide dismutase as protectant against, 338

P

Peritubular cells, discrimination in testicular cell culture using alkaline phosphatase histochemistry (rat), 155
Pertussis toxin, and FSH-induced cAMP accumulation in cultured Sertoli cells (hamster), 314
Phospholipid, epididymal, corticosterone effects (rat), 69
Photoperiod, reproductive responsiveness to (hamster), 91
Pituitary-gonadal axis, water restriction and (rat), 1
Polyvinyl glass coating agents, sperm adhesion and, 34
Proacrosin, 221
sperm levels and fertility, 267
Prolactin (PRL)

LH induction of LH/hCG receptors and (rat), 388
plasma level, gonadotropin-releasing hormone and, 210
response to MVO_2 treadmill stress test in males, 378
serum level, corticosterone treatment and (rat), 69
Prostaglandins, in sperm acrosome reaction and fertilization (animals), 74
Prostate, 16-kDa secretory protein, 182
Prostate cancer
GnRH agonist therapy
gonadotropin levels and, 355
testicular endocrinology and histology and, 363
16-kDa prostatic secretory protein as marker in, 182
leuprolide acetate in, 1: S-23
Proteinase, of seminal plasma and of sperm origin, 221
Puberty
critical body weight and fatness and (rat), 116
LH and testosterone secretion during, opiate receptor blockade and, 203
opiate control of gonadotropins and, 374

R

Radioimmunoassay, 16-kDa prostatic secretory protein, 182
Reproductive system, photoperiod responsiveness (hamster), 91
Research, LHRH agonists, costs and patent considerations, 1: S-27
Rise technique, semen improvement and, 25

S

Semen, tubular structures in infertile patients, 61
Semen evaluation, improvement in sperm using rise technique, 25
Seminal fluid, antisperm antibody, indirect vs direct ELISA quantitation of, 215
Seminal plasma
16-kDa prostatic secretory protein, 182
proteinases, 221
Seminiferous tubules, cryptorchidism-induced damage, reversibility of (lamb), 148
Sertoli cells
androgen receptor concentration, age and (rat), 83
chromatin-steroid receptor interaction, inhibition in ammonium sulfate-fractionated testicular androgen receptor preparations (rat), 299
cultured
cholinergic inhibition of FSH-induced cAMP accumulation in (hamster), 307
FSH inhibition of ornithine decarboxylase activity in (rat), 383
tonic inhibition of adenylate cyclase in (hamster), 314
inhibin production during testicular regression (hamster), 272
Sinopulmonary disease, chronic, and obstructive azoospermia, 225
Sperm density, IVF outcome and, 48
Sperm maturation antigen-4 (SMA-4), 123
Sperm motility
Automatic analysis, 170
computerized videomicrographic analysis (rat), 350
defective. *See* Asthenospermia
glass coating agents for prevention of sperm adhesion, 34
IVF outcome and, 48
sperm separation by swim-up method (bull), 259
Sperm penetration assay, semen processed with rise technique, 25
Sperm separation, swim-up method, quantitation (bull), 259
Spermatogenesis
body weight and fatness and (rat), 116
following experimental cryptorchidism and subsequent orchidopexy (lamb), 148
reversibility of long-term effects of GnRH agonist administration (monkey), 319
Spermatogonia, aging and, 64
Spermatozoa
acrosin/proacrosin levels, fertility and, 267
acrosome integrity. *See* Acrosome integrity
acrosome reaction and fertilization, cyclooxygenase and prostaglandins in (animals), 74
adenosine triphosphate generation in, motility and, 349
adhesion to glass slides, glass coating agents for prevention of, 34
cryopreservation, buffering systems, cryovials and thaw rates, 41
demembranated reactivated, glass coating agents and sperm adhesion, 34
fertilization potential, improvement with rise technique, 25
flagellar plasma membrane modification during maturation in epididymis (rat), 129
lipid peroxidation in, 338
metalloendoprotease activity, 14
proteinases, 221
sperm maturation antigen-4 (SMA-4) (mice), 123
Spermicides, orally active (dog), 230
Steroidogenesis, in epididymal principal cells (ram), 238
Superoxide, production in sperm, 338
Superoxide dismutase, protectant against lipid peroxidation in sperm, 338
Swim-up method, sperm separation (bull), 259

T

Testis
β-adrenergic receptors in (rat), 7
ammonium sulfate-fractionated androgen receptor preparation from, inhibition of steroid receptor-chromatin interaction (rat), 299
blood flow interruption, reversible (ram), 108
cell culture, peritubular cell discrimination, alkaline phosphatase histochemistry (rat), 155
growth and development, photoperiod responsiveness (hamster), 91
histologic study, reversibility of long-term effects of GnRH agonist administration (monkey), 319
interstitial fluid, nongonadotropic Leydig cell stimulating factor in, after heat exposure (rat), 247
Leydig cell response to estradiol immunization (ram), 97
microvascular (hemodynamic) sequelae of varicocele (rat), 292
prolonged suppression of function with LHRH agonist, reversal of (monkey), 103
regression, Sertoli cell inhibin production during (hamster), 272
Sertoli cell androgen receptor concentration, age and (rat), 83
spermatogonial effects of aging, 64
varicocele (rat), 403
Testosterone
LH induction of LH receptors and (rat), 393

metabolism, in epididymal principal cells (ram), 238
in prostate cancer patient, GnRH agonist therapy and, 355, 363
secretion
adrenal steroids and (ram), 190
estradiol immunization and (ram), 97
in pubertal boys, opiate receptor blockade and, 203
serum level, corticosterone treatment and (rat), 69
suppression of, GnRH agonist treatment and, reversibility of (monkey), 319
water restriction and (rat), 1
Tubules, in semen of infertile patient, 61

U

Undernutrition, puberty and (rat), 116

V

Varicocele
in rat, 403
testicular microvascular sequelae (rat), 292
Vasectomy
antisperm autoantibodies following (rat), 253
epididymal morphometry and (rat), 279
Videomicrography, computerized, sperm motility (rat), 330

W

Water restriction, pituitary-gonadal function and (rat), 1

Y

Young's syndrome, 225

Author Index to Volume 8

A

Acar, J. F.: *see* Auroux, M. R.
Alvarez, J. G., Touchstone, J. C., Blasco, L., Storey, B. T.: Spontaneous lipid peroxidation and production of hydrogen peroxide and superoxide in human spermatozoa: Superoxide dismutase as major enzyme protectant against oxygen toxicity, 338
Amann, R. P., Marengo, S. R., Brown, D. V.: Steroidogenesis and testosterone metabolism in cultured principal cells from the ram epididymis, 238; *also see* Froman, D. P.
Anderson, J.: *see* Glass, A. R.
Armario, A., Campmany, L., Lopez-Calderon, A.: Pituitary-gonadal function in adult male rats subjected to chronic water restriction, 1
Aruldhas, M. M.: *see* Balasubramanian, K.
Auroux, M. R., De Mouy, D. M., Acar, J. F.: Male fertility and positive chlamydial serology: A study of 61 fertile and 82 subfertile men, 197

B

Baker, H. W. G.: *see* Liu, D. Y.
Balasubramanian, K., Aruldhas, M. M., Govindarajulu, P.: Effect of corticosterone on rat epididymal lipids, 69
Bardin, C. W.: *see* Sundaram, K.
Barenton, B.: *see* Monet-Kuntz, C.
Bergstrom, R. W., Hansen, K. L., Clare, C. N., Katz, M. S.: Hypogonadotropic hypogonadism and anosmia (Kallmann's syndrome) associated with a marker chromosome, 55
Berkowitz, A. S., Heindel, J. J.: Inhibin production by sertoli cells during testicular regression in the golden hamster, 272
Bex, F. J.: *see* Corbin, A.
Blasco, L.: *see* Alvarez, J. G.
Bolt, D. J.: *see* Juniewicz, P. E.
Brown, D. V.: *see* Amann, R. P.
Buzek, S. W., Caston, L. A., Sanborn, B. M.: Evidence for age-dependent changes in sertoli cell androgen receptor concentration, 83

C

Caloras, D.: *see* Herr, J. C.
Campmany, L.: *see* Armario, A.
Caston, L. A.: *see* Buzek, S. W.
Chan, S. Y. W.: *see* Wang, C.
Chapdelaine, P.: *see* Dubé, J. Y.
Chapeau, C., Gagnon, C.: Nitrocellulose and polyvinyl coatings prevent sperm adhesion to glass without affecting the motility of intact and demembranated human spermatozoa, 34
Chapin, R. E., Phelps, J. L., Miller, B. E., Gray, T. J. B.: Alkaline phosphatase histochemistry discriminates peritubular cells in primary rat testicular cell culture, 155
Chaplin, M. D.: *see* Hoffman, P. G.
Chrétien, M.: *see* Dubé, J. Y.
Clare, C. N.: *see* Bergstrom, R. W.
Codesal, J.: *see* Nistal, M.
Corbin, A., Bex, F. J.: Animal pharmacology and safety studies with an LHRH agonist, S-9

D

Davenport, C. W., Heindel, J. J.: Cholinergic inhibition of cAMP accumulation in sertoli cells cultured from immature hamsters, 307
Davenport, C. W., Heindel, J. J.: Tonic inhibition of adenylate cyclase in cultured hamster sertoli cells, 314
Davis, R. O.: *see* Katz, D. F.
de Kretser, D. M.: *see* Ishida, H.
Demers, L. M.: *see* Kulin, H. E.
De Mouy, D. M.: *see* Auroux, M. R.
De Ruiter-Bootsma, A. L.: *see* van Vliet, J.
Dubé, J. Y., Frenette, G., Paquin, R., Chapdelaine, P., Tremblay, J., Tremblay, R. R., Lazure, C., Seidah, N., Chrétien, M.: Isolation from human seminal plasma of an abundant 16-kDa protein originating from the prostate, its identification with a 94-residue peptide originally described as -inhibin, 182

E

Eddy, E. M.: *see* Vernon, R. B.

F

Flickinger, C. J.: *see* Herr, J. C.
Fontaine, I.: *see* Monet-Kuntz, C.
Foote, R. H.: *see* Parrish, J. J.
Frenette, G.: *see* Dubé, J. Y.
Froman, D. P., Schenk, J. L., Amann, R. P.: Sperm-bound amidase activity as a marker for acrosomal integrity in bull spermatozoa, 162

G

Gagnon, C.: *see* Chapeau, C.
Gallien, T. N.: *see* Herr, J. C.
Gerris, J., Khan, I.: Correlation between *in vitro* fertilization and human sperm density and motility, 48
Glass, A. R., Anderson, J., Herbert, D.: Sexual maturation in underfed weight-matched rats: A test of the "critical body weight" theory of pubertal timing in males, 116
Goldstein, M.: *see* Phillips, D. M.
Goodpasture, J. C., Hiller, M. B., Lewis, B. , Walker, K. A. M., Vickery, B. H.: Same date appearance of orally administered, spermicidal 1-substi-

tuted imidazoles in dog ejaculates, 230
Goodpasture, J. C., Zavos, P. M., Zaneveld, L. J. D.: Relationship of human sperm acrosin and proacrosin to semen parameters: II. Correlations, 267
Gottlieb, W., Meizel, S.: Biochemical studies of metalloendoprotease activity in the spermatozoa of three mammalian species, 14
Govindarajulu, P.: *see* Balasubramanian, K.
Gray, T. J. B.: *see* Chapin, R. E.

H

Hansen, K. L.: *see* Bergstrom, R. W.
Heindel, J. J.: *see* Berkowitz, A. S.; *also see* Davenport, C. W.
Hempstead, P.: *see* Phillips, D. M.
Henzl, M. R.: *see* Hoffman, P. G.
Herbert, D.: *see* Glass, A. R.
Herr, J. C., Flickinger, C. J., Howards, S. S., Yarbro, E. S., Spell, D. R., Caloras, D., Gallien, T. N.: Temporal appearance of antisperm autoantibodies in lewis rats following vasectomy, 253
Hiller, M. B.: *see* Goodpasture, J. C.
Hochereau-de Reviers, M. T.: *see* Monet-Kuntz, C.; *also see* Schanbacher, B. D.
Hoekstra, A.: *see* van Vliet, J.
Hoffman, P. G., Henzl, M. R., Chaplin, M. D., Nerenberg, C. A.: Clinical development of nafarelin acetate: Phase I and Phase II studies, S-17
House, S. D.: *see* Nagler, H. M.
Howards, S. S.: *see* Herr, J. C.; *also see* Hurt, G. S.
Howe, S. E.: *see* Lynch, D. M.
Hudson, R. W.: *see* Zaworonok, M. E.
Huhtaniemi, I., Nikula, H., Parvinen, M., Rannikko, S.: Pituitary-testicular function of prostatic cancer patients during treatment with a gonadotropin-releasing hormone agonist analogy: I. Endocrinology and histology of the testis, 363
Huhtaniemi, I., Nikula, H., Rannikko, S.: Pituitary-testicular function of prostatic cancer patients during treatment with a gonadotropin-releasing hormone agonist analogy: I. Circulating hormone levels, 355
Hume, M. E., Spiegel, M. S., Polakoski, K. L.: Comparison between proteinases of human seminal plasma and of sperm origin, 221
Hurt, G. S., Howards, S. S., Turner, T. T.: The effects of unilateral, experimental varicocele are not mediated through the ipsilateral testis, 403
Hurtt, M. E.: *see* Working, P. K.
Hussein, M. O., Zipf, W. B.: Characteristics of prolactin-modulated LH induction of LH/hCG receptors: Transient inhibition of receptor induction following prolactin exposure, 388; *also see* Zipf, W. B.

I

Ishida, H., Risbridger, G. P., de Kretser, D. M.: Variation in the effect of a nongonadotropic leydig cell stimulating factor in testicular interstital fluid after exposure of the testis to a single episode of heat treatment, 247

J

Jennings, M. G.: *see* Liu, D. Y.
Johnson, B. H.: *see* Juniewicz, P. E.
Joyce, C. L., Nuzzo, N. A., Wilson, L., Jr., Zaneveld, L. J. D.: Evidence for a role of cyclooxygenase (Prostaglandin Synthetase) and prostaglandins in the sperm acrosome reaction and fertilization, 74
Juniewicz, P. E., Johnson, B. H., Bolt, D. J.: Effect of adrenal steroids on testosterone and luteinizing hormone secretion in the ram, 190

K

Katz, D. F., Davis, R. O.: Automatic analysis of human sperm motion, 170
Katz, M. S.: *see* Bergstrom, R. W.
Keizer-Zucker, A.: *see* Sundaram, K.
Khan, I.: *see* Gerris, J.
Killian, G. J.: *see* Miller, R. J.
Kulin, H. E., Demers, L. M., Rogol, A. D., Veldhuis, J. D.: The effect of long-term opiate antagonist administration to pubertal boys, 374

L

Labrie, F.: *see* Poyet, P.
Lazure, C.: *see* Dubé, J. Y.
Lewis, B. : *see* Goodpasture, J. C.
Lifsics, M. R.: *see* Olson, G. E.
Lipowsky, H. H.: *see* Nagler, H. M.
Liu, D. Y., Jennings, M. G., Baker, H. W. G.: Correlation between defective motility (Asthenospermia) and ATP reactivation of demembranated human spermatozoa, 349
Lizza, E. F.: *see* Nagler, H. M.
Locatelli, A.: *see* Monet-Kuntz, C.
Lopez-Calderon, A.: *see* Armario, A.
Lukas, S. E.: *see* Phipps, W. R.
Lynch, D. M., Howe, S. E.: Comparison of a direct and indirect ELISA for quantitating antisperm antibody in semen, 215

M

Madhubala, R., Shubhada, S., Steinberger, A., Tsai, Y-H.: Inhibition of ornithine decarboxylase activity by follicle stimulating hormone in primary culture of rat sertoli cells, 383
Marengo, S. R.: *see* Amann, R. P.
Mauras, N., Rogol, A. D., Veldhuis, J. D.: Appraising the instantaneous secretory rates of luteinizing hormone and testosterone in response to selective mu opiate receptor blockade in late pubertal boys, 203
Meizel, S.: *see* Gottlieb, W.
Mendelson, J. H.: *see* Phipps, W. R.
Miller, B. E.: *see* Chapin, R. E.
Miller, R. J., Killian, G. J.: Morphometric analyses of the epididymis from normal and vasectomized rats, 279
Moger, W. H.: Uptake and release of ascorbic acid by rat leydig cells *in vitro*, 398
Monet-Kuntz, C., Barenton, B., Locatelli, A., Fontaine, I., Perreau, C., Hochereau-de Reviers, M. T.: Effects of experimental cryptorchidism and subsequent orchidopexy on seminiferous tubule functions in the lamb, 148
Muller, C. H.: *see* Vernon, R. B.

N

Nagler, H. M., Lizza, E. F., House, S. D., Tomashefsky, P., Lipowsky, H. H.: Testicular hemodynamic changes after the surgical creation of a varicocele in the rat: Intravital microscopic observations, 292
Nerenberg, C. A.: *see* Hoffman, P. G.
Nestor, J. J., Jr.: Design of LHRH agonist drug candidates, S-4
Niemi, M.: Andrology as a specialty: Its origin, 201
Nieschlag, E.: *see* Weinbauer, G. F.
Nikula, H.: *see* Huhtaniemi, I.
Nistal, M., Codesal, J., Paniagua, R., Santamaria, L.: Decrease in the number of human ap and ad spermatogonia and in the ap/ad ratio with advancing age: New data on the spermatogonial stem cell, 64
Nuzzo, N. A.: *see* Joyce, C. L.

O

Oei, Y. H.: *see* van Vliet, J.
Olson, G. E., Lifsics, M. R., Winfrey, V. P., Rifkin, J. M.: Modification of the rat sperm flagellar plasma membrane during maturation in the epididymis, 129
Orban, W. A.: *see* Zaworonok, M. E.

P

Paniagua, R.: *see* Nistal, M.
Paquin, R.: *see* Dubé, J. Y.
Parrish, J. J., Foote, R. H.: Quantification of bovine sperm separation by a swim-up method: Relationship to

sperm motility, integrity of acrosomes, sperm migration in polyacrylamide gel and fertility, 259
Parvinen, M.: *see* Huhtaniemi, I.
Pelletier, J.: *see* Schanbacher, B. D.
Perreau, C.: *see* Monet-Kuntz, C.
Phelps, J. L.: *see* Chapin, R. E.
Phillips, D. M., Goldstein, M., Zacharopoulos, V. R., Hempstead, P.: Tubules in semen of infertile patients: Case report, 61
Phipps, W. R., Lukas, S. E., Mendelson, J. H., Schiff, I.. Effect of gonadotropin-releasing hormone on prolactin levels in males unrelated to stress or behavioral changes, 210
Polakoski, K. L.: *see* Hume, M. E.
Poyet, P., Labrie, F.: Characterization of -adrenergic receptors in dispersed rat testicular interstital cells, 7
Prins, G. S.: *see* Weidel, L.

R

Rannikko, S.: *see* Huhtaniemi, I.
Respondek, M.: *see* Weinbauer, G. F.
Rifkin, J. M.: *see* Olson, G. E.
Risbridger, G. P.: *see* Ishida, H.
Rogers, B. J.: *see* Russell, L. D.
Rogol, A. D.: *see* Kulin, H. E.; *also see* Mauras, N.
Rooij, D. G.: *see* van Vliet, J.
Russell, L. D., Rogers, B. J.: Improvement in the quality and fertilization potential of a human sperm population using the rise technique, 25

S

Sanborn, B. M.: *see* Buzek, S. W.
Santamaria, L.: *see* Nistal, M.
Schanbacher, B. D., Pelletier, J., Hochereau-de Reviers, M. T.: Follicle stimulating hormone, luteinizing hormone and testicular leydig cell responses to estradiol immunization in Ile-de-France rams, 97
Schenk, J. L.: *see* Froman, D. P.
Schiff, I.: *see* Phipps, W. R.
Seely, J. H.: Phase III studies in prostatic cancer with leuprolide acetate, S-23
Seidah, N.: *see* Dubé, J. Y.
Shimamoto, T.: Pharmaceutical aspects: Nasal and depot formulations of leuprolide, S-14
Shubhada, S.: *see* Madhubala, R.
Siegel, M. S.: *see* Hume, M. E.
Sisk, C. L., Turek, F. W.: Reproductive responsiveness to short photoperiod develops postnatally in male golden hamsters, 91
So, S. Y.: *see* Wang, C.
So, W. W. K.: *see* Wang, C.
Spell, D. R.: *see* Herr, J. C.
Steinberger, A.: *see* Madhubala, R.
Storey, B. T.: *see* Alvarez, J. G.
Sundaram, K., Keizer-Zucker, A., Thau, R. B., Bardin, C. W.: Reversal of testicular function after prolonged suppression with an LHRH agonist in rhesus monkeys, 103

T

Thau, R. B.: *see* Sundaram, K.
Themann, H.: *see* Weinbauer, G. F.
Tomashefsky, P.: *see* Nagler, H. M.
Touchstone, J. C.: *see* Alvarez, J. G.
Tremblay, J.: *see* Dubé, J. Y.
Tremblay, R. R.: *see* Dubé, J. Y.
Tsai, Y-H: Suppression of steroid receptor-chromatin interaction by inhibitors present in ammonium sulfate-fractionated rat resticular androgen receptor preparations, 299
Tsai, Y-H.: *see* Madhubala, R.
Turek, F. W.: *see* Sisk, C. L.
Turner, T. T.: *see* Hurt, G. S.

V

van Vliet, J., De Ruiter-Bootsma, A. L., Oei, Y. H., Hoekstra, A., Rooij, D. G., Wensing, C. J. G.: Reversible harmless interruption of testicular blood supply in the ram, 108
Veldhuis, J. D.: *see* Kulin, H. E.; *also see* Mauras, N.
Vernon, R. B., Muller, C. H., Eddy, E. M.: Further characterization of a secreted epididymal glycoprotein in mice that binds to spert tails, 123
Vickery, B. H.: Costs of research and patent considerations, S-27; Opening comments, S-3; Symposium on the development of a drug: LHRH agonists, S-1; *also see* Goodpasture, J. C.

W

Walker, K. A. M.: *see* Goodpasture, J. C.
Wang, C., So, S. Y., Wong, K. K., So, W. W. K., Chan, S. Y. W.: Chronic sinopulmonary disease in chinese patients with obstructive azoospermia, 225
Weidel, L., Prins, G. S.: Cryosurvival of human spermatozoa frozen in eight different buffer systems, 41
Weinbauer, G. F., Respondek, M., Themann, H., Nieschlag, E.: Reversibility of long-term effects of GnRH agonist administration on testicular histology and sperm production in the nonhuman primate, 319
Wensing, C. J. G.: *see* van Vliet, J.
Wilson, L., Jr.: *see* Joyce, C. L.
Winfrey, V. P.: *see* Olson, G. E.
Wong, K. K.: *see* Wang, C.
Working, P. K., Hurtt, M. E.: Computerized videomicrographic analysis of rat sperm motility, 330

Y

Yarbro, E. S.: *see* Herr, J. C.

Z

Zacharopoulos, V. R.: *see* Phillips, D. M.
Zaneveld, L. J. D.: *see* Goodpasture, J. C.; *also see* Joyce, C. L.
Zavos, P. M.: *see* Goodpasture, J. C.
Zaworonok, M. E., Hudson, R. W., Orban, W. A.: The prolactin response of males to a standard MVO^2 treadmill test, 378
Zipf, W. B., Hussein, M. O.: Sex steroid inhibition of LH induction of the LH receptor, 393; *also see* Hussein, M. O.